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(54) MICROORGANISM PRODUCING 5-XANTHYLIC ACID

(57) Abstract:

PURPOSE: A microorganism SaO.4-23 (KFCC-11139) producing 5-xanthylic acid(XMP) is provided which is a mutant strain of Corynebacterium ammoniagenes (KFCC 10743) having sodium azide resistance and reinforced electron transport system, thereby having superior productivity of 5-xanthylic acid than conventional strains. CONSTITUTION: A microorganism SaO.4-23 (KFCC-11139) producing 5-xanthylic acid(XMP) is obtained by treating Corynebacterium ammoniagenes (KFCC 10743) with mutagens such as, N-methyl-N-nitro-N-nitrosoguanidine(NTG) or UV rays, to have sodium azide resistance and reinforced electron transport system. Therefore, it has improved productivity of 5-xanthylic acid. 5-xanthylic acid is an intermediate of biosynthesis of purine nucleotide and used as a source in manufacturing 5-guanylic acid.

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